## In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

- 1. (original) A highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability, having on the steel product surface a zinc alloy plating layer composed of 4 to 10% by mass of Al, 1 to 5% by mass of Mg, up to 0.1% by mass of Ti and the balance of Zn and unavoidable impurities, the plating layer having a metal structure in which one or at least two of the [Al phase], [Zn<sub>2</sub>Mg phase] and [Zn phase] are present in a mixture in the matrix of an [Al/Zn/zn<sub>2</sub>Mg ternary eutectic structure], and the plating layer containing a Ti-Al base intermetallic compound in one or at least two of the [Al phase], [Zn<sub>2</sub>Mg phase] and [Zn phase].
- 2. (original) A highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability, having on the steel product surface a zinc alloy plating layer composed of 4 to 22% by mass of Al, 1 to 5% by mass of Mg, up to 0.1% by mass of Ti, up to 0.5% by mass of Si and the balance of Zn and unavoidable impurities, the plating layer of the plated steel product having a metal structure in which an [Mg<sub>2</sub>Si phase], an [Al phase] and a [Zn<sub>2</sub>Mg phase] are present in a mixture in the matrix of an [Al/Zn/Zn<sub>2</sub>Mg ternary eutectic structure], and the plating layer containing a Ti-Al base intermetallic compound in one or at least two of the [Al phase] and [Zn<sub>2</sub>Mg phase].
- 3. (original) A highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability, having on the steel product surface a zinc alloy plating layer composed of 4 to 22% by mass of Al, 1 to 5% by

mass of Mg, up to 0.1% by mass of Ti, up to 0.5% by mass of Si and the balance of Zn and unavoidable impurities, the plating layer of the plated steel product having a metal structure in which an [Mg<sub>2</sub>Si phase], an [Al phase], a [Zn<sub>2</sub>Mg phase] and a [Zn phase] are present in a mixture in the matrix of an [Al/Zn/Zn<sub>2</sub>Mg ternary eutectic structure], and the plating layer containing a Ti-Al base intermetallic compound in one or at least two of the [Al phase], [Zn<sub>2</sub>Mg phase] and [Zn phase].

- 4. (original) A highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability, having on the steel product surface a zinc alloy plating layer composed of 4 to 22% by mass of Al, 1 to 5% by mass of Mg, up to 0.1% by mass of Ti, up to 0.5% by mass of Si and the balance of Zn and unavoidable impurities, the plating layer of the plated steel product having a metal structure in which an [Mg<sub>2</sub>Si phase], an [Al phase] and a [Zn phase] are present in a mixture in the matrix of an  $[Al/Zn/Zn_2Mg$  ternary eutectic structure], and the plating layer containing a Ti-Al base intermetallic compound in one or two of the [Al phase] and [Zn phase].
- 5. (original) A highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability, wherein the Ti-Al base intermetallic compound according to any one of claims 1 to 4 is TiAl<sub>3</sub>.
- 6. (original) A highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability, wherein the Ti-Al base intermetallic compound according to any one of claims 1 to 4 is  $Ti(Al_{1-x}Si_x)_3$  (wherein X = 0 to 0.5).
- 7. (currently amended) The highly corrosion-resistant hot-dip galvanized steel product excellent in surface

smoothness and formability according to any one of claims 1 to  $\frac{4}{2}$ , wherein the Ti-Al base intermetallic compound contained in an [Al phase] in the plating layer is present in a Zn-Al eutectoid reaction structure in which Zn phases are condensed.

- 8. (currently amended) The highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability according to any one of claims 1 to 7  $\underline{4}$ , wherein the size of a dendrite in an [Al phase] in the plating layer is up to 500  $\mu m$ .
- 9. (currently amended) A process for producing the highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability according to any one of claims 1 to  $\frac{4}{2}$ , comprising the step of adding a Ti-Zn base intermetallic compound to a plating bath.